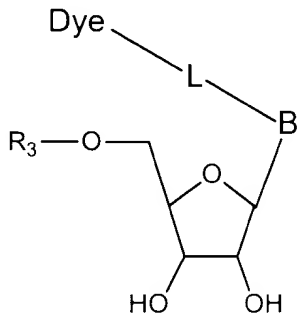
(ii) extending said at least one primer in the presence of a mixture of unlabeled dNTPs and at least one dye-labeled ribonucleotide having the formula:



G1 cont

wherein B is a nucleobase; L is a linker; R_3 is triphosphate, α-thiotriphosphate, or a salt thereof, and Dye is a reporter group;

so that primer extension products that contain at least one dye-labeled ribonucleotide are formed;

(iii) cleaving one or more primer extension products to form a plurality of labeled fragments;

(iv) separating the extension products by size; and

(v) detecting the fragments to determine the polynucleotide sequence.

Please add new claims 124-126, as follows:

--124. (New) The method according to claim 101, wherein said at least one dye-labeled ribonucleotide is:

G2

(1) a compound of formula I:

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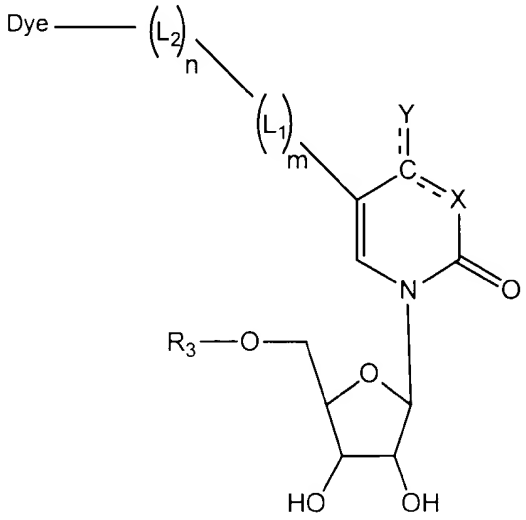


Formula I

G2
cw

- wherein X is N, NH, or C;

- wherein Y is O or NH_2;

- wherein R_3 is either triphosphate, α-thiotriphosphate, or a salt thereof;

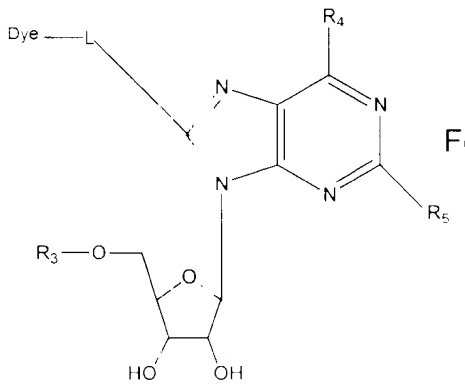
- wherein L_1 is a linker;

- wherein L_2 is a a benzylamine linker or a phosphate linker;

- wherein n = 0-4, m = 0-4, and m + n is at least 1; and;

- wherein the dye is any reporter group;

(2) a compound of formula II:



Formula II

- wherein L is a linker;

- wherein R_4 is either NH_2, OH, or O, and B is either NH_2, OH, or H;

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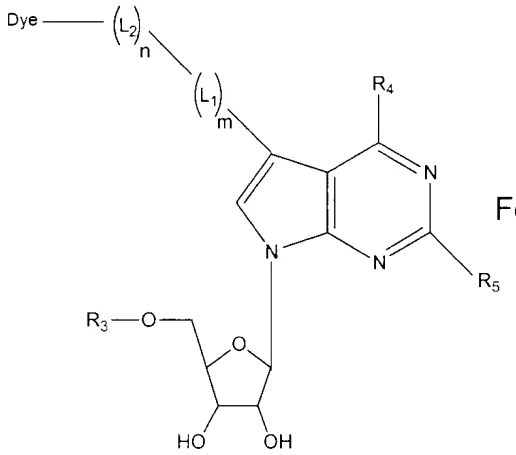
- wherein R_3 is either triphosphate, α-thiotriphosphate, or a salt thereof;

and

- wherein the dye is any reporter group;

(3) a compound of formual III:



Formula III

- wherein L_1 is a linker;

- wherein L_2 is a a benzylamine linker or a phosphate linker;

- wherein n = 0-4, m = 0-4, and m + n is at least 1;

- wherein R_4 is either NH_2, OH, or O, and R_5 is either NH_2, OH, or H;

- wherein R_3 is either triphosphate, α-thiotriphosphate, or a salt thereof;

and

- wherein the dye is any reporter group;

(4) a compound of formula IV:

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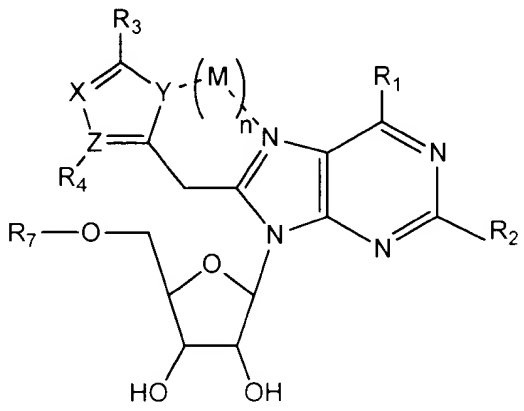


Formula IV

- wherein R_1, R_2, and R_4 are independently H, O, OR, S, SR, NR_2 or CR_2;

- wherein R_3 is SR, NR_2, OR, or CR_2 and comprises a reporter group;

- wherein R is hydrogen, alkyl, aryl, or an amino acid;

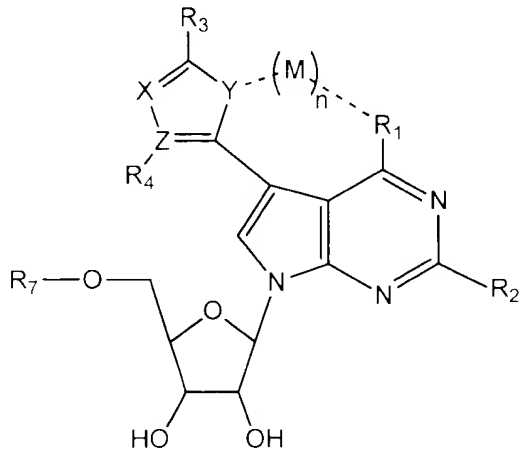
- wherein R_7 is either triphosphate, α-thiotriphosphate, or a salt thereof;

- wherein X, Y, and Z are independently carbon, nitrogen, oxygen, sulfur, phosphorus, or selenium;

- wherein n is 0 or 1; and

- wherein M is H_2O or any metal;

(5) a compound of formula V:



Formula V

- wherein R_1, R_2, and R_4 are independently H, O, OR, S, SR, NR_2 or CR_2;

- wherein R_3 is SR, NR_2, OR, or CR_2 and comprises a reporter group;

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- wherein R is hydrogen, alkyl, aryl, or an amino acid;

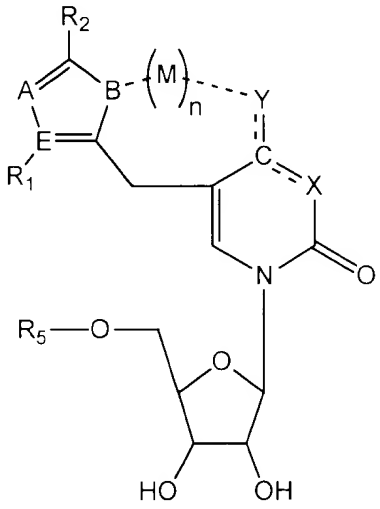
- wherein R_7 is either triphosphate, α-thiotriphosphate, or a salt thereof;

- wherein X, Y, and Z are independently carbon, nitrogen, oxygen, sulfur, phosphorus, or selenium;

- wherein n is 0 or 1; and

- wherein M is H_2O or any metal;

(6) a compound of formula VI:



Formula VI

- wherein R_1 is H, O, OR, S, SR, NR_2, or CR_2,

- wherein R_2 is SR, NR_2, OR, or CR_2 and comprises a reporter group;

- wherein R is hydrogen, alkyl, alkynyl, aryl, or an amino acid;

- wherein R_5 is either triphosphate, α-thiotriphosphate, or a salt thereof;

- wherein X is N, NH, or C;

- wherein Y is O or NH_2;

- wherein A, B, and E are independently C, N, O, S, P, or Se;

- wherein n is 0 or 1; and

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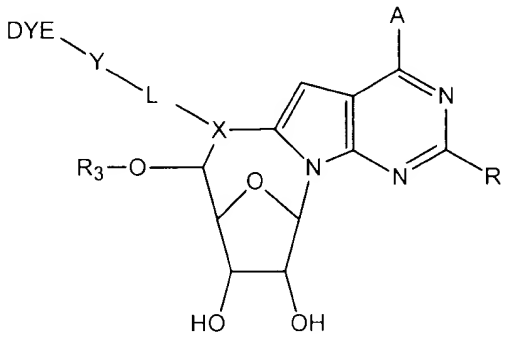
- wherein M is H_2O or any metal;

(7) a compound of formula VII:



Formula VII

G2 cont

- wherein A is NH_2, OH, or O;

- wherein R is H, O, NR'_2, S, CR'_2, or halide;

- wherein R' is hydrogen or alkyl;

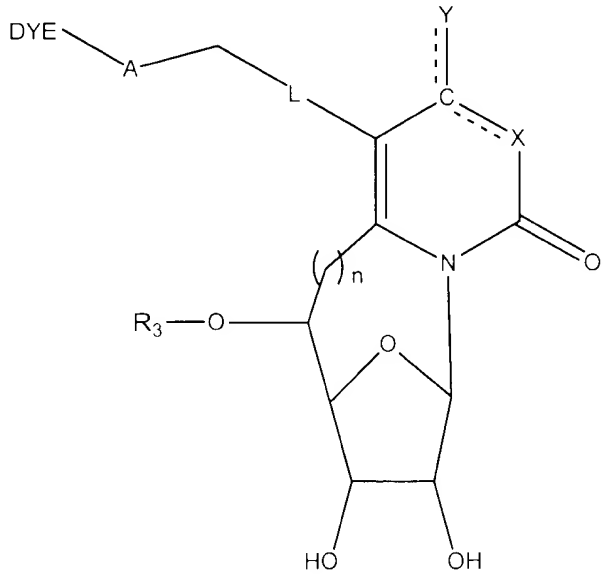
- wherein R_3 is either triphosphate, α-thiotriphosphate, or a salt thereof;

- wherein L is alkyl;

- wherein X is CR or N and Y is O, S, or NH; and

- wherein the dye is any reporter group;

(8) a compound of formula VIII:



Formula VIII

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- wherein X is N, NH, or C;

- wherein Y is O or NH_2;

- wherein R_3 is either triphosphate, α-thiotriphosphate, or a salt thereof;

- wherein A is O, S, or NH;

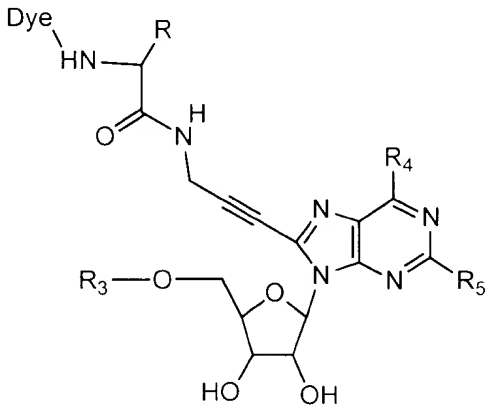
- wherein L is alkyl or aryl substituted at from 0 to 3 positions in a chemically reasonable manner with F, Cl, Br, I, C1-C18 alkyl, Silyl, OH, OR', SH, SR', SOR', SO_2R', SO_3, or NR'_2;

- wherein R' is hydrogen or alkyl;

- wherein n is 1 to 10; and

- wherein the dye is any reporter group;

(9) a compound of formula IX:



Formula IX

- wherein R_4 is NH_2, OH, or O and R_5 is NH_2, OH, or H, provided that if A is NH_2, B is H and if A is O, B is NH_2;

- wherein R_3 is either triphosphate, α-thiotriphosphate, or a salt thereof;

- wherein the dye is any reporter group; and

- wherein R is a side chain for mobility tuning;

(10) a compound of formula 10:

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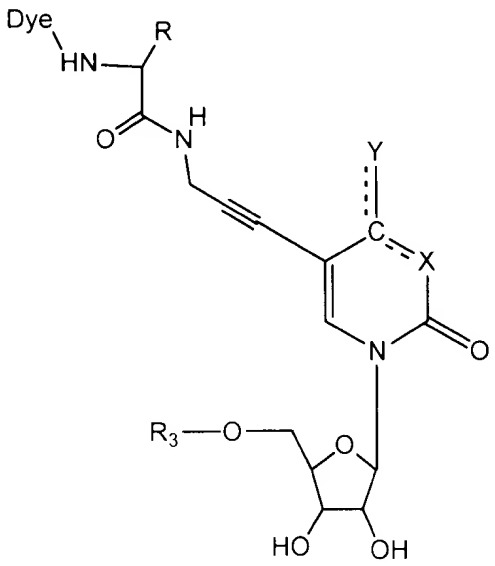


Formula X

- wherein X is N, NH, or C;

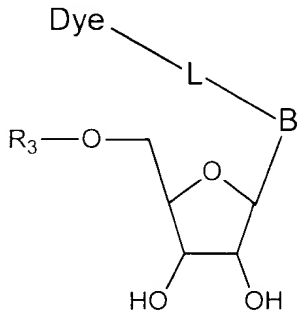
- wherein Y is O or NH_2;

- wherein R_3 is either triphosphate, α-thiotriphosphate, or a salt thereof;

- wherein Dye is any reporter group, and

- wherein R is a side chain for mobility tuning;

(11) a compound of formula 11:



Formula XI

- wherein B is a nucleobase selected from uracil, cytosine, adenine, 7-deazaadenine, guanine, and 7-deazaguanine;

- wherein R_3 is triphosphate or a salt thereof;

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